

WORKSHOP

MANIPULATION AND CHARACTERIZATION FOR BIOLOGICAL APPLICATIONS

BESANÇON
november 27, 2019

PROGRAM

9.30 Welcoming/coffee

10.00 Scientific session #1

10h - Aude Bolopion - FEMTO-ST

Microrobotics for selective cell sorting: towards the development of innovative medicines

10h25 - Abdenbi Mohand-Oussaid - FEMTO-ST

High fidelity Microscale force feedback teleoperation systems

10h50 - Nino Läubli - ETHZ

Manipulation and characterization at small scales: From single cells to organisms

11h15 - Selman Sakar - EPFL

Untethered mechanical microsystems for transport and delivery of biological agents

11h40 - Emmanuel Piat - FEMTO-ST

Challenges in control theory induced by the mechanical characterization of human oocytes

12.30 Lunch / Poster session

14.00 Scientific session #2

14h - Claire Bourlieu - INRA

Getting inspired from natural lipoproteic assemblies to enhance lipid bioaccessibility

14h25 - Edison Gerena - ISIR

Interactive robotic optical single-cell manipulation

14h50 - Olivier Théodoly - Laboratoire Adhésion et Inflammation

Mechanics in leukocytes recruitment

15h15 - Alexis Peaucelle - INRA

Capacité d'expansion intrinsèque des parois végétales et sa dynamique rhéologique étudiée par nanoscopie et FluidFM

15h40 - Soukalo Dembélé, Guillaume Laurent, Patrick Sandoz

Repositionnement et reconstruction visuels d'objets biologiques

16h15 Coffee break

16h30 Lab tour

CONTACTS

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